

Title (en)
METHOD AND SYSTEM FOR PREDICTING SPEECH RECOGNITION PERFORMANCE USING ACCURACY SCORES

Title (de)
VERFAHREN UND SYSTEM ZUR VORHERSAGE DER SPRACHERKENNUNGSLEISTUNG DURCH GENAUIGKEITSSCORES

Title (fr)
PROCÉDÉ ET SYSTÈME DE PRÉVISION DE PERFORMANCES DE RECONNAISSANCE VOCALE AU MOYEN DE NOTES DE PRÉCISION

Publication
EP 2891147 A4 20160713 (EN)

Application
EP 12883743 A 20120830

Priority
US 2012053061 W 20120830

Abstract (en)
[origin: WO2014035394A1] A system and method are presented for predicting speech recognition performance using accuracy scores in speech recognition systems within the speech analytics field. A keyword set is selected. Figure of Merit (FOM) is computed for the keyword set. Relevant features that describe the word individually and in relation to other words in the language are computed. A mapping from these features to FOM is learned. This mapping can be generalized via a suitable machine learning algorithm and be used to predict FOM for a new keyword. In at least embodiment, the predicted FOM may be used to adjust internals of speech recognition engine to achieve a consistent behavior for all inputs for various settings of confidence values.

IPC 8 full level
G10L 15/01 (2013.01)

CPC (source: EP)
G10L 15/01 (2013.01)

Citation (search report)

- [X] US 2004162730 A1 20040819 - MAHAJAN MILIND [US], et al
- [XI] YAMASHITA Y ED - EUROPEAN SPEECH COMMUNICATION ASSOCIATION (ESCA): "PREDICTION OF KEYWORD SPOTTING ACCURACY BASED ON SIMULATION", 6TH EUROPEAN CONFERENCE ON SPEECH COMMUNICATION AND TECHNOLOGY. EUROSPEECH '99. BUDAPEST, HUNGARY, SEPT. 5 - 9, 1999; [EUROPEAN CONFERENCE ON SPEECH COMMUNICATION AND TECHNOLOGY. (EUROSPEECH)], BONN : ESCA, DE, 5 September 1999 (1999-09-05), pages 1235 - 1238, XP001075903
- See references of WO 2014035394A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2014035394 A1 20140306; AU 2012388796 A1 20150305; AU 2012388796 B2 20181018; BR 112015003830 A2 20170704; BR 112015003830 B1 20210601; CA 2883076 A1 20140306; CA 2883076 C 20190611; EP 2891147 A1 20150708; EP 2891147 A4 20160713; EP 2891147 B1 20200812; JP 2015530614 A 20151015; JP 6230606 B2 20171115; NZ 705071 A 20170127

DOCDB simple family (application)
US 2012053061 W 20120830; AU 2012388796 A 20120830; BR 112015003830 A 20120830; CA 2883076 A 20120830; EP 12883743 A 20120830; JP 2015529768 A 20120830; NZ 70507112 A 20120830